

What is claimed is:

1. An optical pickup comprising:

a synthetic resin-made base in which a collimator lens and an objective lens are disposed at one end opening of a light passage hole with a half mirror, the base having a mounting surface formed on another end opening of the light passage hole that is penetrating the base;

a laser diode disposed in a laser hole communicating with the light passage hole;

a resilient plate made of a leaf spring having a first end portion secured to the mounting surface in such a manner as to be heightwise adjustable by an adjusting screw, and a pair of left and right leg portions formed integrally at both side edge portions of a second end portion that is opposite to the first end portion, the leg portions extending toward the first end portion along a horizontal longitudinal direction; and

a printed circuit board with a photodiode, the printed circuit board secured to the resilient plate while being positioned in the horizontal longitudinal direction and a horizontal transverse direction;

wherein laser light is projected from the laser diode onto a disk through the half mirror, the collimator lens, and the objective lens, and reflected light thereof is received by the photodiode through the half mirror, so as to read information

recorded on the disk;

a support pedestal which is one step higher is integrally formed at an end portion of the mounting surface;

5 a pair of fixing holes are respectively formed in the leg portions in such a manner as to be provided on a phantom line passing through a central axis of the photodiode and extending in the horizontal transverse direction;

10 a pair of threaded holes are respectively formed in both side edge portions of the mounting surface in face-to-face relation to the fixing holes;

an elongated engaging hole is penetratingly provided in a tip end portion of one of the leg portions along the horizontal longitudinal direction;

15 an elliptical positioning projection is projectingly provided on one of the side edge portions of the mounting surface in face-to-face relation to the engaging hole;

each of the leg portions is positioned on the mounting surface by engaging the positioning projection with the engaging hole; and

20 fixing screws are respectively screwed into the threaded holes through the fixing holes in the leg portions, so as to press the second end portion of the resilient plate against the support pedestal.

25 2. An optical pickup comprising:

a synthetic resin-made base having a mounting surface formed thereon;

5 a resilient plate having a first end portion secured to the mounting surface in such a manner as to be heightwise adjustable by an adjusting screw, and a pair of left and right leg portions formed integrally at both side edge portions of a second end portion that is opposite to the first end portion, the leg portions extending toward the first end portion along a horizontal longitudinal direction;

10 a printed circuit board with a photodiode, the printed circuit board secured to the resilient plate while being positioned in the horizontal longitudinal direction and a horizontal transverse direction; and

a laser diode;

15 wherein laser light is projected from the laser diode onto a disk, and reflected light thereof is received by the photodiode, so as to read information recorded on the disk;

a support pedestal which is one step higher is integrally formed on an end portion of the mounting surface; and

20 a pair of fixing screws are respectively screwed into a pair of threaded holes in the mounting surface through a pair of fixing holes respectively provided penetratingly in the leg portions, so as to press the second end portion of the resilient plate against the support pedestal.

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3. The optical pickup according to claim 2, wherein each of the fixing holes is provided on a phantom line passing through a central axis of the photodiode and extending in the horizontal transverse direction.

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4. The optical pickup according to claim 2, wherein an elongated engaging hole is penetratingly provided in a tip end portion of one of the leg portions along the horizontal longitudinal direction;

10 an elliptical positioning projection is projectingly provided on the mounting surface in face-to-face relation to the engaging hole; and

the resilient plate is positioned on the mounting surface by engaging the positioning projection with the engaging hole.

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5. The optical pickup according to claim 3, wherein an elongated engaging hole is penetratingly provided in a tip end portion of one of the leg portions along the horizontal longitudinal direction;

20 an elliptical positioning projection is projectingly provided on the mounting surface in face-to-face relation to the engaging hole; and

the resilient plate is positioned on the mounting surface by engaging the positioning projection with the engaging hole.

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6. The optical pickup according to claim 2, wherein a photodiode fixing portion of the resilient plate on which the printed circuit board is secured is inclined upward by a predetermined angle with respect to each of the leg portions before being hightwise  
5 adjusted by the adjusting screw.